

IN THE CLAIMS

1. (Previously Amended) A noise elimination device, comprising:
a housing provided with coaxial connectors on both ends; and
a noise elimination circuit arranged inside the housing;
wherein a ground conductor thickness of a coupling portion coupling the noise elimination circuit with the coaxial connectors is at least twice a skin depth of current flowing due to a skin effect at a high transmission signal frequency.
2. (Previously Amended) The noise elimination device according to Claim 1, wherein the noise elimination circuit includes a coil made by winding a coaxial cable around at least one of an open magnetic core, a closed magnetic core, or both an open magnetic core and a closed magnetic core connected in series.
3. (Original) The noise elimination device according to Claim 1, wherein the noise elimination circuit includes a coil made by winding a coaxial cable around at least one of an open magnetic core and a closed magnetic core.
4. (Withdrawn)
5. (Withdrawn)
6. (Previously Amended) The noise elimination device according to Claim 1, wherein one of the coaxial connectors is a plug connector and the other coaxial connector is a jack connector.

7. (Previously Amended) The noise elimination device according to Claim 1, wherein the housing is substantially tube-shaped and the two ends of the housing are insulated from one another.

8. (Original) The noise elimination device according to Claim 6, wherein the housing is substantially tube-shaped and the two ends of the housing are insulated from one another.

9-92. (Withdrawn)